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ASH GROVE CEMENT COMPANY
Western Region - Internal Correspondence

DATE : May 28, 1996

TO: Central Region: Western Region:
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Marty Raggett (Foreman) Duane Crutchfield (Leamington)
Dave Schultz (Springfield) Mike Hrizuk (Durkee)
Jim Shea (Chanute) Don Killebrew (Inkom)
Dan Peterson (Montana City)
Henrik Voldbaek (Seattle)

FROM: Doug Hale 

COPIES: Walter Greer, Eileen Sollars, Ed Pierce, Bill Siemering

SUBJECT: WASTE REDUCTION/WASTE MINIMIZATION

As you will recall, waste reduction/waste minimization was one of the first four initiatives selected to be implemented company-wide. The goals of the environmental initiative committee in the implementation of this initiative were to:

1. Assess the quantities, characteristics and disposal practices from each plant;
2. Assist each facility in the development of a Waste Reduction/Waste Minimization Program; and
3. Share innovative solutions being used to reduce waste generated throughout our company.

At the 10/11-12/95 managers' meetings in Seattle, WA, I presented a compilation of the results of the surveys collected from each plant, which detailed the types and amounts of wastes currently being generated at each facility. I have enclosed a copy of this spreadsheet, as well as the individual plant survey results which additionally describe each plant's current waste disposal methods.

We are recommending that each facility develop and maintain a formalized waste minimization program, if not already doing so, which addresses both hazardous and non-hazardous waste streams. To assist you in this endeavor, I have attached a copy of Foreman's waste minimization program which addresses hazardous waste, as well as Durkee's program for waste minimization, handling and disposal. Once your program is in place, it is advisable that, at least once each year, your plant management re-evaluates

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your facility's waste generation quantities and disposal practices and explore minimization techniques.

As a means of sharing innovative waste minimization techniques company-wide, we are recommending that waste minimization be a standing agenda item at the annual safety & environmental managers' meeting, whereby each plant's programs can be compared, solutions can be shared and future goals can be set.

If there are any questions regarding our waste minimization initiative efforts, please contact Walter Greer, Eileen Sollars or me.

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WASTE REDUCTION/MINIMIZATION SURVEY

TYPE OF WASTE	QUANTITY GENERATED/MONTH								
	DURKEE	INKOM	LEAM	MT CITY	RIVERGATE	SEATTLE	CHANUTE	L'VILLE	FOREMAN
ORE DUST & DIRT	5000 Tons	20 Tons	30,000 Tons	Variable		25 Tons	255 Tons	600 Tons	
PAPER	100 Lbs.	150-200 Lbs.	2000 Lbs.	Plant Waste - 2200 gal.; Whse. Waste- 20 cu. yd.		3000 Lbs.	4 Tons (includes aerosol cans*)	2500 Lbs.	13,700 Lbs.
PLASTICS	10 Lbs.	10 Lbs.	200 Lbs.			3000 Lbs.		4200 Lbs.	
FOOD WASTES	10 Lbs.		500 Lbs.			150 Lbs.			
WOOD	20 Lbs.	600 Lbs.	500 Lbs.			4000 Lbs.	20 Brd. Ft.	1200 Lbs.	500 Pallets
STEEL & METAL SCRAP	1 Ton	10 Tons	10 Tons	Variable		8.5 Tons	28 Tons	14 Tons	20 Tons
OIL FILTERS	80 Lbs.	20 each	100 Lbs.	50 each		3 each	460 Tons	250 Lbs.	68 Lbs.
OILY RAGS	20 Lbs.	70 Lbs.	200 Lbs.	20 Lbs.		70 Lbs.		3300 Lbs.	
OIL & GREASE DRUMS	10 Lbs.	3 each	110 Gal.	5-10 each		5 each	19 each	600 Lbs.	50 each
ABSORBENT MATERIAL	10 Lbs.	1 Lb.	1000 Lbs.	4 - 55-gal. drums		200 Lbs.	1092 Lbs.		1200 Lbs.
AEROSOL CANS	50 each	10 each	20 Lbs.	50 each		55 each	106* each		54 each
WASTE OIL	100 Gal.	70 Gal.	500 Gal.	150 Gal.		250 Gal.	5870 Lbs.	1350 Gal.	14,000 Lbs.
SPENT ANTIFREEZE	20 Gal.		10 Gal.	5 Gal.		30 Gal./yr.		100 Gal.	60 Gal.
LANDSCAPING WASTES	20 Lbs.	1/2 Lb.		Negligible			1 Ton		
LAB WASTES	1 Gal.	4 Gal.	10 Gal.	2 Liters		5 Bottles	120 Gal. Cement	1000 Lbs.	130 Lbs.
NON-HAZ. WASTE SOLVENTS	5 Gal. - Parts Washing Solvent	4 Gal.		25 Gal. Solvent; 2 Lbs. Parts Washer				30 Gal.- Parts Washing Solvent	40 Lbs. Cleaner

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TYPE OF WASTE	QUANTITY GENERATED/MONTH								
	DURKEE	INKOM	LEAM	MT CITY	RIVERGATE	SEATTLE	CHANUTE	L'VILLE	FOREMAN
HAZ. WASTE SOLVENTS			110 Gal./yr. - Paint; 70 Gal./mo. - Parts Cleaner			200 Lbs. SkySol (d-Limonene)	135 Lbs.		
WASTEWATER				30 GPM (process wastewater)			400,000 Gal. (Incl. 5 Gal. 1% hydro-chloric acid)	1 MM Gal./day	
CKD	3000 Tons	25 Tons		144 Tons/day			9000 Tons	7500 Tons	8000 Tons
WDF RESIDUE							9500 Lbs.	1000 Lbs.- Filter screening	1000 Lbs. - tank farm (varsol, filter residues, PPE, spent carbon); 1300 Lbs. - solid fuel (PPE, rags, spent solvent)
OTHER		500 Tons - dust (to leach potash solution)	1 Gal./yr.- Mercuric Chloride & Potassium Dichromate				6300 Lbs. - Shrinkwrap; .2 Liters ammonium oxylate, ammonium hydroxide, stannous chloride, mercuric chloride, barium chloride, phosphoric acid	30 each/yr. - Batteries; 15 Tons/yr. - Tires; 40 Tons/mo.- brick	3.5 Tons - Shrinkwrap